APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

Formation of a New Phase in 18-8 Steel Welds Containing Columbium by G. G. Mikhin, N. Yu. Pal'chuch.

RUSSIAN, per, Avtomat Svarka, Vol XI, No 6, 1958, pp 88-91.

Henry Brutcher 4462
$3.50

Sci - Chem

Apr 59

84,314

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

Table of Contents: Automatic Welding.

RUSSIAN, per, Avtomat Svarka, No 7, Kiev, 1958, publ by the Publishing House of the Academy of Sciences of the Ukrainian SSR.

Engr Res Devel Lab
T-359

Sci - Engr

Dec 58

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

Potap'evskiy, A. G.
METAL FUSION AND TRANSFER IN CO_2-SHIELDED WELDING VITH A THIN WIRE (Plavlennlye i Perenos Metalla pri Svarke Tonkoy Provolokoy v Srede Uglekislogo Gasa). Mar 61 [16]p. 8 refs. RTS 1778. Order fromLC or SLA mi$2.40, ph$3.30 61-19109

Trans. of Avtomaticheskaya Svarka (USSR) 1958, v. 11, no. 7, p. 52-59.

The electrode fusion and metal transfer processes have been examined for CO_2-shielded welding with type Sv-10GS wire 0.5 to 1.2 mm in diameter, and also the nature of energy dissipation in the arc. The influence of welding condition parameters on metal fusion and transfer have been investigated. (Author)

(Machinery--Manufacturing, TT, v. 5, no. 10)

61-19109

1. Metals--Welding
2. Wires--Applications
I. Potap'evskiy, A. G.
II. RTS-1778
III. Department of Scientific and Industrial Research (Gt. Brit.)

LSH ($5.00)

160939

Office of Technical Services

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

Universal Electrolyte for the Polishing of Stainless and Heat-Resisting Steels, Low-Carbon Steels, and Titanium Alloy VT-5, by G. I. Parfessa, V. A. Sidlyarenko.

RUSSIAN, per, Avtomat Svarka, Vol XI, No 7, 1958, pp 83, 84.

Henry Brutcher 4421.
$2.25

Sol - Engr

84,311

Apr 59

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

Table of Contents: Automatic Welding.

RUSSIAN, per, Avtomat Svarka, No 8, 1958, publ by the Publishing House of the Academy of Sciences of the [redacted] Ukrainian SSR, Kiev.

Engr Res Devel Lab T-332

Sci - Engr

Dec 58

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

On the Electrical Circuits of Machines for the Contact Welding of Thin Metal. UNCL
ID 210947
RUSSIAN, per, Avtomat. Svarka, No 8, 1958.

USASIA 1035

Sci - Engr

Jun 59

88,400

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

Adopt Advanced Welding Methods More Widely in Industry, 3 pp. UNCL

RUSSIAN, per, Avtom Svarka, No 8, 1958, pp 1-3.

Lending Library Unit
Translations Bulletin
Feb 1959

USSR
Econ
Apr 59

85, 127

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

Vacuum Welding by Diffusion, by N. F. Kazakov,

RUSSIAN, per, Avtom Svarka, No 8, 1958, pp 6-18.

*Henry Brutcher

Sci - Engr

Feb 59

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

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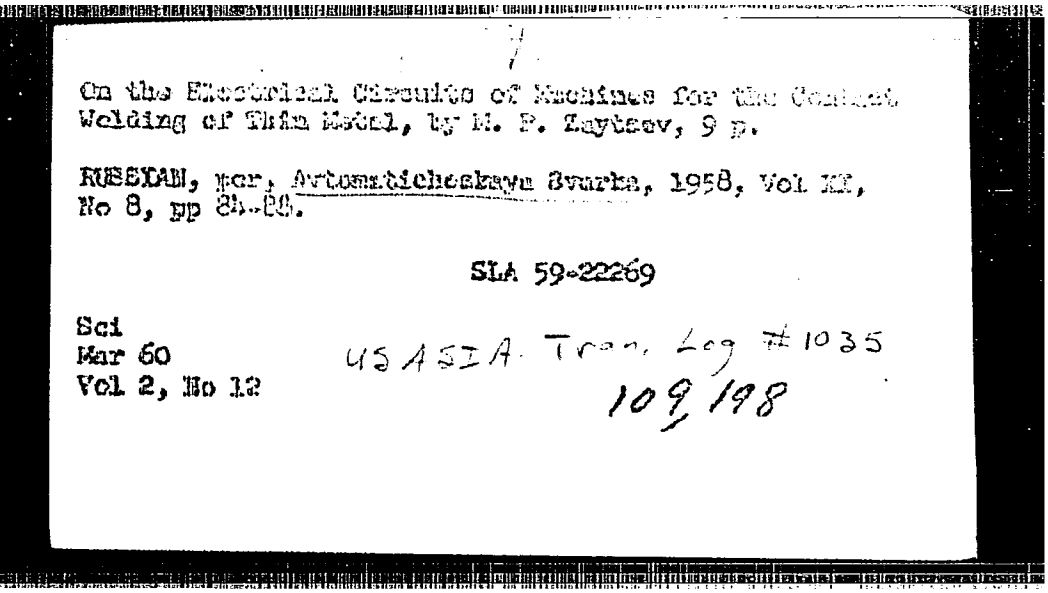

On the Electrical Circuits of Machines for the Contact Welding of Thin Metal, by M. P. Zaytsev, 9 p.

RUSSIAN, per, Avtomaticheskaya Svarka, 1958, Vol XI, No 8, pp 84-88.

SLA 59-22269

Sci
Mar 60
Vol 2, No 12

USAEIA Trans. Log #1035
109/198

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

Table of Contents: Automatic Welding.

RUSSIAN, per, Avtomat Svarka, No 9, 1958, publ by the Publishing House of the Academy of Sciences of the Ukrainian SSR, Kiev.

Engr Res Devel Lab T-385

Sci - Engr

Dec 58

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

Research into New Types of Low-Alloy Steel for Welded Bridge Girders, by T. N. Shutskaya, V. S. Gordenny. USSR.

RUSSIAN, per, Avtom Svarka, No 9, 1958, pp 3-12.

WLC M.4307
British Iron and
Steel Ind 1166

Sci - Min/Met; Engr
Apr 59

83,868

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

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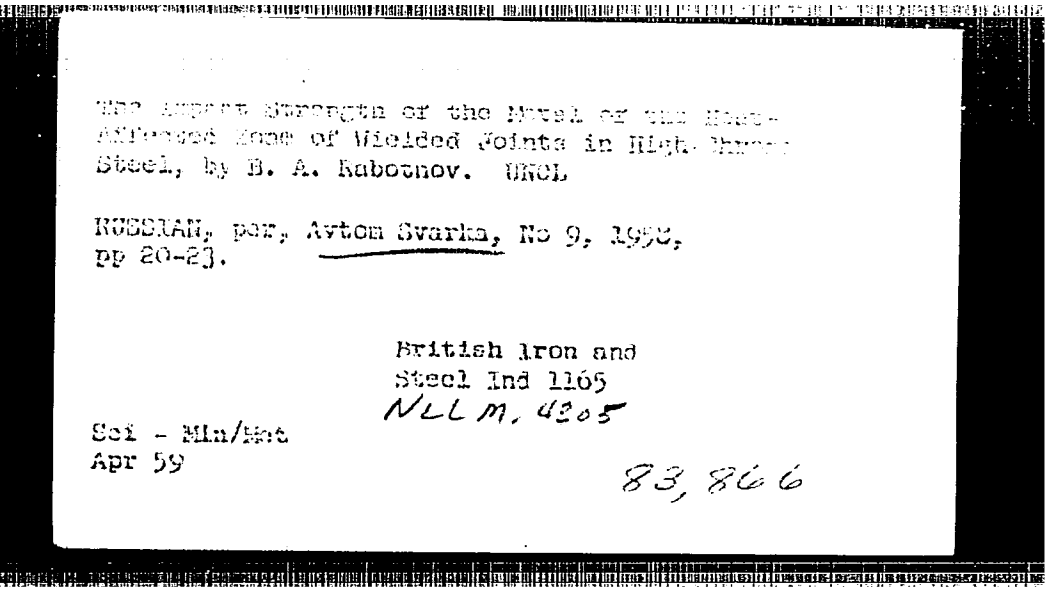

The Impact Strength of the Metal of the Heat-Affected Zone of Welded Joints in High-Strength Steel, by B. A. Kabotnov. UNCL

RUSSIAN, per, Avtom Svarka, No 9, 1958, pp 20-23.

British Iron and Steel Ind 1165
NLLM, 4205

Sol - Min/Met
Apr 59

83,866

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

Lashko, N. F. and Lashko-Avakyan, S. V.
THE ROLE OF THE CARBIDE PHASES AND OF PRIMARY FERRITE IN THE FORMATION OF HIGH-TEMPERATURE CRACKING IN THE WELDING OF AUSTENITIC STEELS [ORoli Karbidnykh Faz i Pervichnogo Ferrita v Obrazovanii Kristallizatsionnykh Treshchin pri Svarke Austenitnykh Stalei]. Jan 60.
Order from MT MT Trans-22

Trans. of Avtomaticheskaya Svarka (USSR) 1958 [v. 11] no. 9, p. [98]-110.
Another translation is available from LC or SLA ml$2.40, pb$3.30 as 60-13629, BWRA TR-15/59, Mar 59 [18]p.

DESCRIPTORS: *Steel, *Welding, *Welds.

For abstract see Technical Translations 4: 164, 1960.

(Machinery--Manufacturing, TT, v. 6, no. 5)

61-22731

I. Lashko, N. F.
II. Lashko-Avakyan, S. V.
III. MT Trans-22
IV. Tollemache, M. de O. (Gt. Brit.)

DSIR LAU 11.591

180541

Office of Technical Services

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

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Table of Contents: Automatic Welding.

RUSSIAN, per, Avtomat Svarka, No 10, 1958, publ by the Publishing House of the Academy of Sciences of the Ukrainian SSR, Kiev.

Engr Res Devel
Lab T-397

Sci - Engr

Dec 58

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

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Structure of Electro-Slag Welds in Nodular Cast Iron, by L. A. Poznyak, et al.

RUSSIAN, per, Avtomat Svarka, Vol XI, No 10, 1958, pp 67-74.

HB 4636

Sci - Engr

Jan 60

105430

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

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The Use of Ultrasonics in Beam and Spot Welding,
by M. A. Ol'shanskiy, et al. VMOL

RUSSIAN, per, Avtomat Svarka, No 10, 1958,
pp 75-80.

HB 5289
DSIR LIB MAR 1427

(15s.02.)

Mel - Phys

Mar 60

111,091

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

Spectrographic Analysis of High-Silicon Aluminium Alloy and Welds, by A. S. Dem'yanchuk, O. P. Rynbushko. UNCL

RUSSIAN, per, Avtom Svarka, No 10, 1958, pp 86-89.

British Iron and Steel Ind 1347 (Ll 15s.0d.)

NLL-F-96,028

Sci - Phys
Sep 59

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

Gupalo, Yu. D.
SOURCES D'ALIMENTATION POUR LA SOUDURE ÉLECTRIQUE SOUS SCORIE [Power Supply for Electric Slag Welding] tr. by I. Melnyck. 27 Mar 62 [18]p. 5 refs. CEA Trans. no. R 1523 (text in French).
Order from OTS or SLA $1.60 62-33736

Trans. in French of Avtomat[icheskaya] Svarka (USSR) 1958, v. 11, no. 8, p. 19-26.

DESCRIPTORS: *Electroslag process, *Welding, Electrical equipment, *Power supplies, Slags.

Nous avons étudié l'influence de la pente des caractéristiques extérieures des sources d'alimentation sur la stabilité du processus et sur la stabilité de la fusion des bords des pièces soudées. Nous montrons les avantages des transformateurs de soudure à caractéristiques extérieures raides. (Author)
(Metallurgy, TT, v. 9, no. 9)

62-33736

I. Gupalo, Yu. D.
II. CEA-tr-R1523
III. Commissariat à l'Énergie Atomique (France)

Office of Technical Services

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

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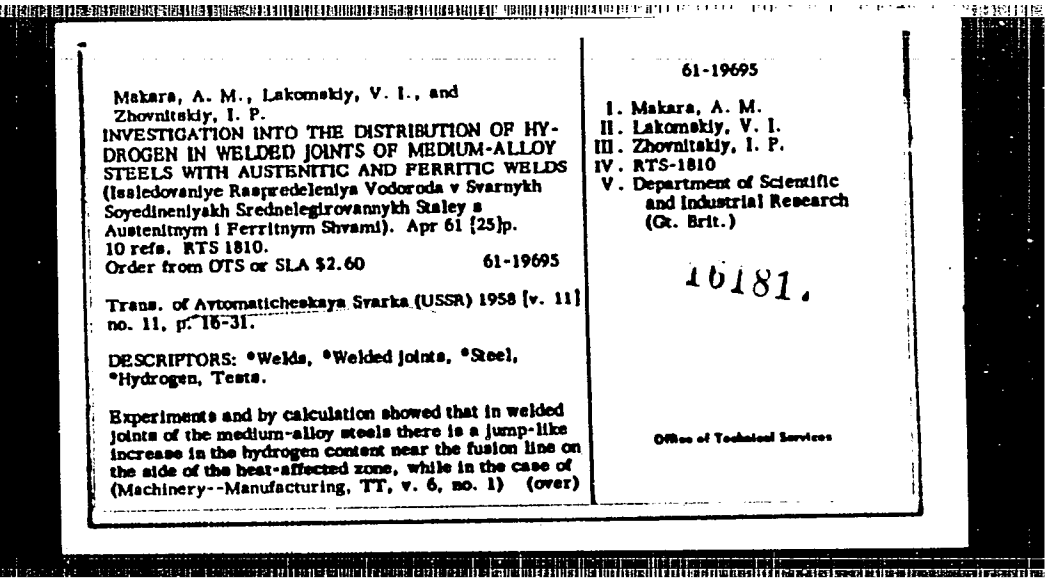

Makara, A. M., Lakomskiy, V. I., and Zhovnitskiy, I. P.
INVESTIGATION INTO THE DISTRIBUTION OF HYDROGEN IN WELDED JOINTS OF MEDIUM-ALLOY STEELS WITH AUSTENITIC AND FERRITIC WELDS (Issledovaniye Raspredeleniya Vodoroda v Svarnykh Soyedineniyakh Srednelegirovannykh Staley s Austenitnym i Ferritnym Shvami). Apr 61 [25]p. 10 refs. RTS 1810.
Order from OTS or SLA $2.60 61-19695

Trans. of Avtomaticheskaya Svarka (USSR) 1958 [v. 11] no. 11, p. 16-31.

DESCRIPTORS: *Welds, *Welded joints, *Steel, *Hydrogen, Tests.

Experiments and by calculation showed that in welded joints of the medium-alloy steels there is a jump-like increase in the hydrogen content near the fusion line on the side of the heat-affected zone, while in the case of (Machinery--Manufacturing, TT, v. 6, no. 1) (over)

61-19695

I. Makara, A. M.
II. Lakomskiy, V. I.
III. Zhovnitskiy, I. P.
IV. RTS-1810
V. Department of Scientific and Industrial Research (Gt. Brit.)

16181.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

Two Controlled Atmosphere Chambers for Welding Refractory Metals, by N. A. Ol'shanskiy. UNCL

RUSSIAN, per, Avtom Svarka, No 11, 1958, pp 32-36.

DSIR LLU RTS 1422

(12s. 6d.)

Sci - Engr
Apr 60

113,022

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

Desulphurizing Capacity of Fluxes in Electro-Slag Welding, by Yu. N. Zaitsev, UKCL
O. S. Tyagun-Belous. UKCL

RUSSIAN, per, Avtom Svarka, No 11, 1958, pp 57-60.

EB 4685

Sci - Eng
Mar 60

109 418

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

Brittle Failure of Low-Carbon Steel Welds, by B. S Kasatkin.

RUSSIAn, per, Avtomat Svarka, Vol XI, No 11, 1958, pp 71-80.

HB 4786

Sci - Min/Met

Apr 60

114, 271

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

On the Question of the Reasons for the Appearance of Gas Streams in a Welding Arc, by G. B. Serdyuk. UNCL

RUSSIAN, per, Avtom Svarka, No 11, 1958, pp 81-84.

DSIR LLU RPS 1428

(10s. 0d.)

Sol - Engr
Apr 60

113,023

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

BD #628 (DC-3131).

A. N. Shashkov (On His 60th Birthday), 2 pp.

RUSSIAN, per, Avtomaticheskaya Svarka, No 11, 1958, pp 95, 96.

JPRS-L-2021-D

USSR
Bio
Sci - Misc
Feb 60

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

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THE EFFECT OF SLAG COMPOSITION ON THE MELTING OF AN ELECTRODE OF LARGE CROSS SECTION IN THE ELECTROSLAG PROCESS, BY YU. V. LATASH, G S TYAGUN-BELOUS, 15 PP.
~~B151 5660~~
RUSSIAN, PER, AVTOM SVARKA, NO 12 (69), 1958, PP 17-27.

JPRS 21983
B151 5660

SCI-MAT & MET
DEC 63

242,960

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

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Influence of the Condition of the Electroslag Process on the Melting Speed of Heavy-Gage Electrodes, by D. A. Dudko, I. N. Rublevskiy, et al, 9 pp.
RUSSIAN, per, Avtomat Svarka, No 12, Dec 1958, pp 57-62.
JPRS 24940

Sci - M/M
Jun 64

6
261,089

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

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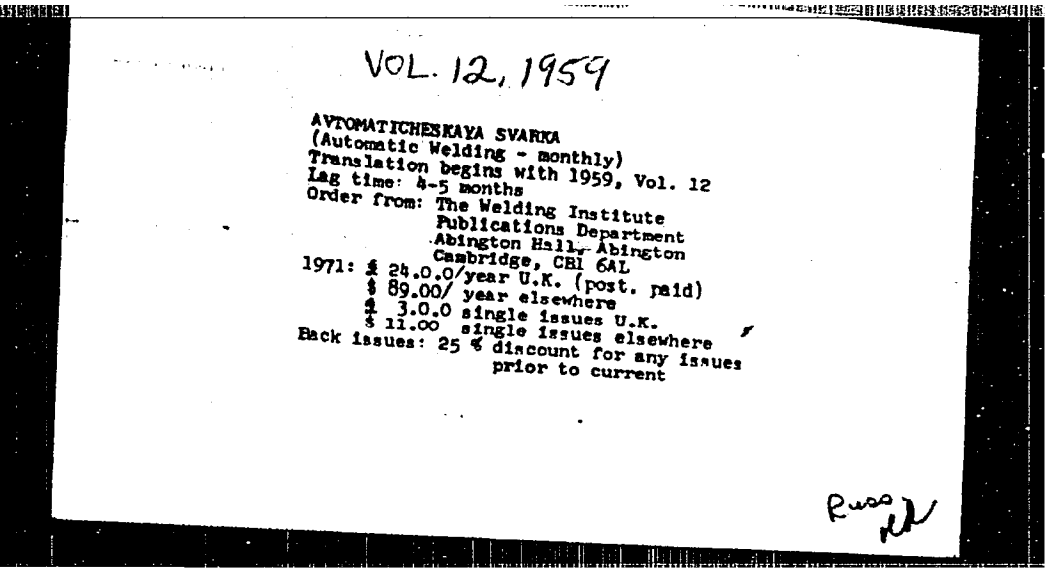

VOL. 12, 1959

AVTOMATICHESKAYA SVARKA
(Automatic Welding - monthly)
Translation begins with 1959, Vol. 12
Lag time: 4-5 months
Order from: The Welding Institute
Publications Department
Abington Hall, Abington
Cambridge, CB1 6AL
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Welding in Chemical and Petroleum Machine Building, by A. N. Sofonnikov and S. V. Yunger, 9 pp.
RUSSIAN, per, Avtomaticheskaya Svarka, No 12, Dec 1964, pp. 84-87.
JPRS 30496

USSR
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Jun 65

281,606

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

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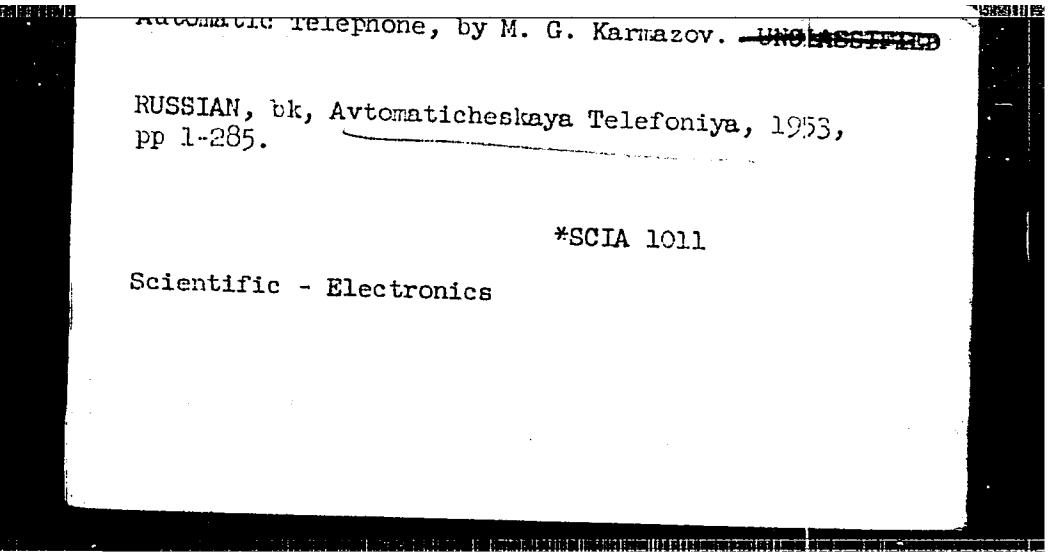

Automatic Telephone, by M. G. Karmazov. UNCLASSIFIED

RUSSIAN, bk, Avtomaticheskaya Telefoniya, 1953, pp 1-285.

*SCIA 1011

Scientific - Electronics

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Approximate Investigation of Some Types of Strongly Non-Linear Autonomous A Systems, by V.V. Kazakevich. 92pp.
RUSSIAN, [redacted], Avtomaticheskoye Upravleniye. 960580

*FTD-TT-63-319

Sci-Math
Mar 63

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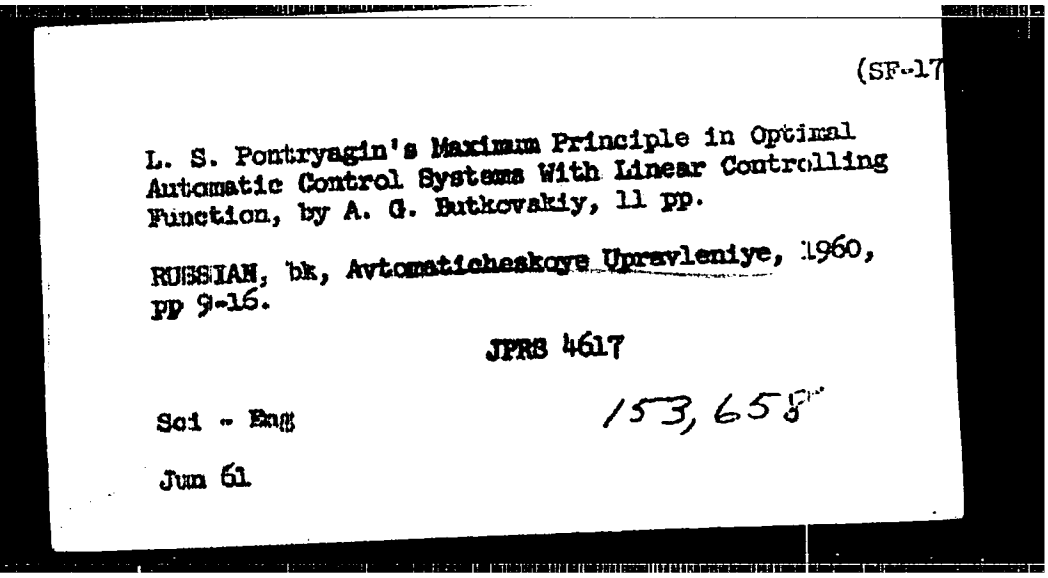

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L. S. Pontryagin's Maximum Principle in Optimal Automatic Control Systems With Linear Controlling Function, by A. G. Butkovskiy, 11 pp.

RUSSIAN, bk, Avtomaticheskoye Upravleniye, 1960, pp 9-16.

JPRS 4617

153,658

Sci - Eng

Jun 61

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Automatic Control of Metal-Cutting Machine Tools; Automation Systems and Their Use (by V.A. Barun, A.A. Budinskiy.

RUSSIAN, bk, Avtomaticheskoye Upravleniye Metallorezhushchikh Stankov; Sredstva Avtomatizatsii i Ikh Ispol'zovaniye, Chapters 9 & 13, 1959. 9662485.

ATIC MCL 669/III

Sci - Engr
Jun 61

155,443

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Automatic Control, Collected Works, by Ya. Z. Tsypkin, Ye. N. Grigoryev, G. A. Astafyeva. UNCL

RUSSIAN, bk, Avtomaticheskoy Upravleniya Sbornik Rabot Ak Nauk SSSR Inst Avtomatiki i Telemekh, 1960, 431 pp. Articles Beginning on pp 3, 9, 17, 68, 107, 111, 129, 201, 258, 267, 354.

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Sci - Engr, Electronics
27 Jul 61
26-7-501

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

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(NY-3903/1).

The Basic Features of Engineering Cybernetics, by V. V. Solodovnikov, 22 pp.

RUSSIAN, bk, Avtomaticheskoye Upravleniya i Vychislitel'naya Tekhnika, No 1, 1958, pp 5-21.

JPRS-2001-N

Sci - Engr
Nov 59

101, 566

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

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(NY-4688).

Principles of Designing Controlling Mathematical Machines on the Basis of General-Purpose High-Speed Digital Computers, by V. A. Zimin, 31 pp.

RUSSIAN, bk, Avtomaticheskoye Upravleniye i Vychislitel'naya Tekhnika, 1958, pp 29-45.

JPRS 5419

Sci - Electron
18 Oct 60

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(NY-4688)

Contactless Magnetic Devices for Control Systems, by L. I. Gutenmakher, M. L. Gutenmakher, M. L. Avrukh, I. A. Vissonova, et al, 63 pp.

RUSSIAN, bk, Avtomaticheskoye Upravleniye i Vychislitel'naya Tekhnika, 1958, pp 113-145.

JPRS 5779

Sci - Engr

Oct 60

129,012

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

J-4935 (NY-2653).

Contactless Magnetic Devices for a System of Control, by L. I. Gutenmakher, 10 pp.
M.L. AVRUKH, I.A. YESSONOVA

RUSSIAN, bk, Avtomaticheskoye Upravleniye i Vychislitel'naya Tekhnika, Moscow, 1958, pp. 136-145.

No 3

JPRS-L-871-N

Sci - Electronics, Automation
Jul 59

91,607

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

(NY-46881)

Magnetic High-Speed Pulse Relay Elements, by N. V. Korol'kov, 56 pp.

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JPRS 5830

Sci - Electron

Oct 60

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APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

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(NY-4683)

Application of Semiconductor Devices in Computer Technique, by Ye. I. Mamonov, Yu. I. Sharapov, 54 pp.

RUSSIAN, bk, Avtomaticheskoye Upravleniye i Vychislitel'naya Tekhnika, 1958, pp 175-203.

JPRS 5839

Sci - Electron

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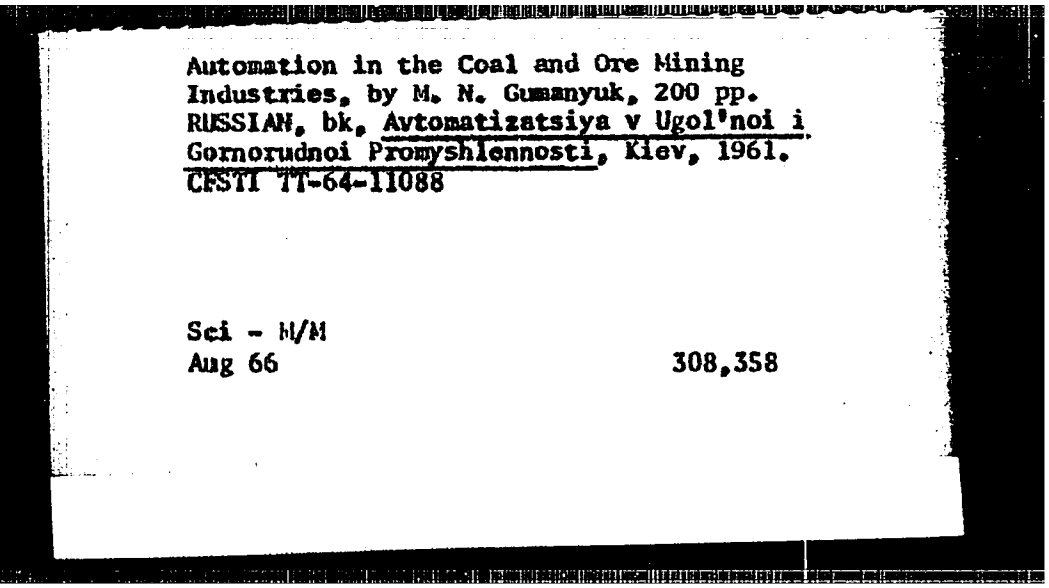

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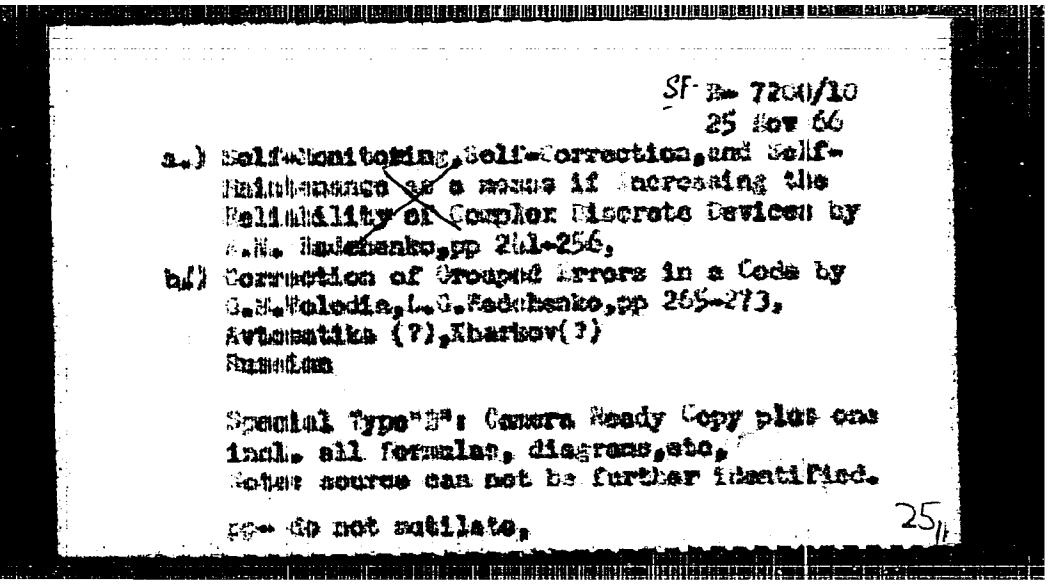

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2. Control systems--Development
3. Servomechanisms--Theory
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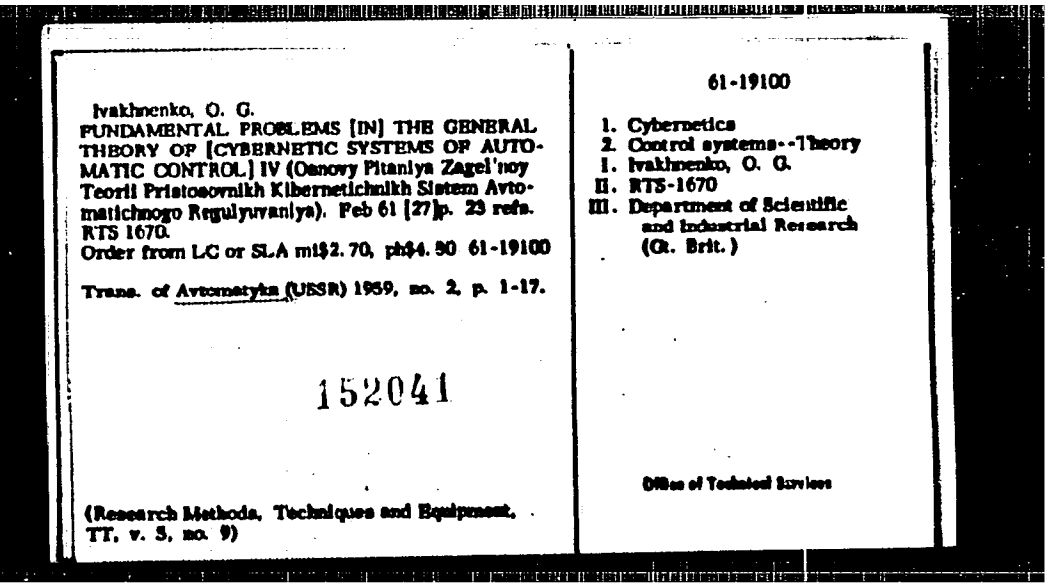

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RUSSIAN, per, Avtomatyka, No 3, 1960, pp 76-92.

JPRS 7959

Sci - Misc

Apr 61

146,662

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300800031-3

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Kostyuk, V. I. [Kuntsevich] V. M., Mandrovskii-Sokolov, B. Yu.
"ON CHANG'S OPTIMIZATION OF THE ADAPTIVE FUNCTION BY THE Z-TRANSFORMATION METHOD". [1961] [20]p. 24 refs.
Order from OTS or SLA $1.60 61-18803

Trans. of Avtomatyka (USSR) 1960, no. 4, p. 14-31.

DESCRIPTORS: Automatic, *Control systems, Synthesis, Functions, Transformations (Mathematics), Stabilization, Errors, Noise, Data, Sampling, Operation.

The main theses of S. S. L. Chang's paper are given. The step-type optimal control system with a weighted sum of all previously measured differences of the figure of merit (or cost function) is shown to have advantages in noise stability only when the disturbances (Engineering--Electronic, TT, v. 7, no. 9) (over)

61-18803

1. Title: Chang's optimization
I. Kostyuk, V. I
II. Kuntsevich, V. M.
III. Mandrovskii-Sokolov, B. Yu.
IV. Chang, S. S. L.

Office of Technical Services

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Avtomatyka, No 1, 1961. (Ukrainian)
pp 3-46 (3 articles)
TO: SF 1880, 5 Feb 62
TSC

p 47-54 (one article)
TO: NY 6502, 5 Feb 62
TSC

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(SF-1880)

The Relation of the Theory of Invariance to the Theory of Differential Controllers, by O. H. Ivakhnenko, 37 pp.

RUSSIAN, per, Avtomatyka, No 1, 1961, pp 3-24.

JPRS 13868

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FTD-TT-62-813 (966711) 41?

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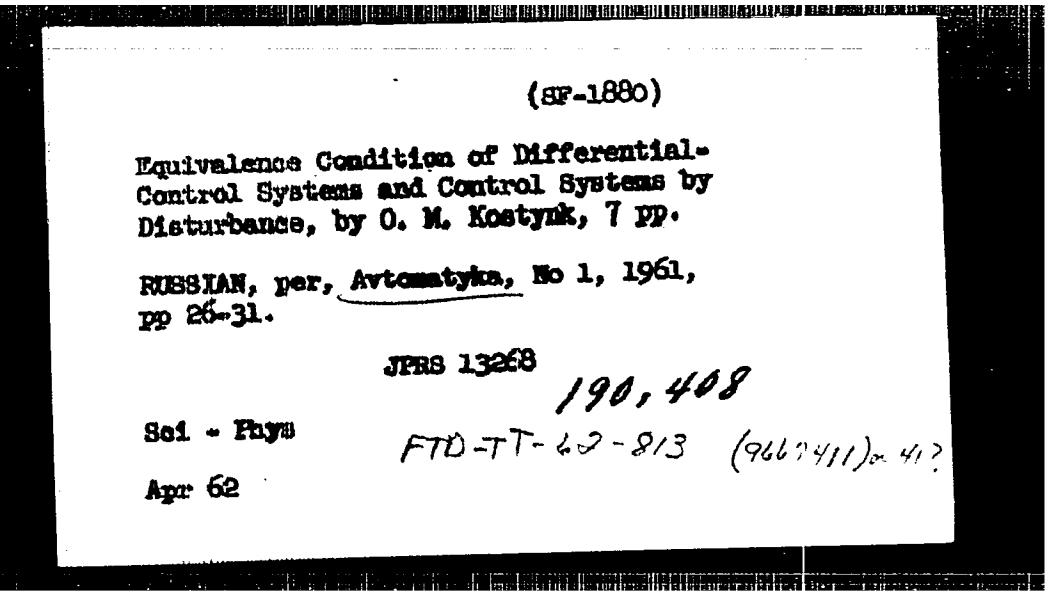

(SF-1880)

Equivalence Condition of Differential-Control Systems and Control Systems by Disturbance, by O. M. Kostynk, 7 pp.

RUSSIAN, per, Avtomatyka, No 1, 1961, pp 26-31.

JPRS 13268

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(SP-1880)

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JPRS 13268

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